ACTUARIAL VALUATION OF CITY OF LAUDERHILL POLICE OFFICERS' RETIREMENT SYSTEM AS OF OCTOBER 1, 2016

May, 2017

Determination of Contribution for the Plan Year ending September 30, 2017 Contribution to be Paid in Fiscal Year October 1, 2016 through September 30, 2017

> DuLaney and Company, Inc. Actuarial Services



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10691 N. Kendall Drive Suite 310 Miami, Florida 33176

Office: (305) 274-9970 Toll Free: 1-866-322-9970

Fax: (305) 274-9946

May 3, 2017

Board of Trustees City of Lauderhill Police Officers' Retirement System c/o Mr. Dave Williams Precision Pension Administration, Inc. 13790 NW 4th Street, Suite 105 Sunrise, FL 33325

Dear Board Members:

We are pleased to present the October 1, 2016 Actuarial Valuation for the City of Lauderhill Police Officers' Retirement System. The purpose of this report is to indicate appropriate contribution levels and to satisfy State requirements. The report is prepared for and at the request of the Board of Trustees.

This report consists of this commentary, detail Tables I through XVI and State Required Exhibit - Table XVII. The Tables contain basic Retirement Plan cost figures plus significant detail on the benefits, liabilities and experience of your Plan.

Costs for Fiscal Year Beginning October 1, 2016

This Actuarial Valuation develops the required minimum Retirement Plan payment for the fiscal year beginning October 1, 2016 and ending September 30, 2017 under the Florida Protection of Public Employee Retirement Benefits Act and Chapter 185. The minimum payment consists of payment of annual normal cost plus amortization of the unfunded actuarial accrued liability over various periods, and interest, as prescribed by law. We anticipate that the member contributions will be \$809,170 (10.0% of covered payroll).

The required funding amount for the plan/fiscal year ending September 30, 2017, to be met by the City and State contributions under Chapter 185 is 33.6% of the covered payroll. The anticipated State (Chapter 185) contribution is \$381,449. The City and State required contribution, computed based on the October 1, 2016 covered payroll of \$8,091,698, is \$2,720,045 or 33.6% of covered payroll, if the payment requirement is met by September 30, 2017. We have assumed that the State contribution available (limited by rules under Chapter 99-1) would be \$381,449 (same as the amount the City was credited with for contribution purposes for the prior plan/fiscal year, and assumed to be 4.7% of covered payroll). Thus, the required City contribution would be \$2,338,596 (28.9% of covered payroll). Under the rules of Chapter 99-1, any amount of the State contribution received above the assumed amount of \$381;449 up to the adjusted base amount of \$504,799 can be used to reduce the City's contribution requirement. If the actual State contribution is less than the assumed amount, the shortfall must be made up by the City.

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Please note that Chapter 185 states that employer contributions must be made at least quarterly.

<u>Changes in Plan Provisions, Actuarial Methods or Assumptions Recognized in this Valuation</u>

In this valuation, there were no changes in plan provisions. The principal plan provisions are summarized in Table XI.

Certain actuarial assumptions and methods employed for this valuation have been revised. The changes included:

- The assumed administrative expenses were changed from \$154,489 to \$156,372 for the plan/fiscal year.
- The mortality table was changed from the RP-2000 Mortality Table with generational projection rates to the mortality tables used by the FRS, as described in Item 1. on page 24.

Table XII contains an outline of the assumptions and methods used.

Comparison of Costs With Previous Valuation Year of 2015/2016

Table II of the report provides information of a comparative nature. Column I shows the results of the October 1, 2015 Actuarial Valuation while Column II shows the results as of October 1, 2016 prior to the change in actuarial assumptions. A comparison of the two columns shows the effect of plan experience during the year. Covered payroll decreased by approximately 4.6% while the number of active participants decreased by about 6.6%. The unfunded liability decreased from \$14,492,346 to \$13,463,695, primarily due to the actuarial gain of \$734,341 during the plan year.

Column III of the Table displays the results after the assumption changes. A comparison of Columns II and III indicates that the changes increased the unfunded actuarial accrued liability by \$781,591 from \$13,463,695 to \$14,245,286. The City minimum funding requirement increased from \$2,237,810 to \$2,338,596.

Plan Experience

Table XVI provides a summary of certain plan experience during the plan year. The actuarial value of assets return was 8.1% for the plan year ended September 30, 2016, which was above the assumption of 7.50%. The market value rate of return was 10.2%. Employee turnover was 127% higher than the expected turnover during the last plan year. The actual pensionable earnings increased by an average of 5.9% per active member as compared to the assumption of 5.5%. The actuarial value of assets return (gain), salary experience (loss), and turnover experience



Board of Trustees May 3, 2017 Page 3

(gain) comprise the main sources of actuarial gain during the plan year. A more detailed analysis would be needed to determine the actual magnitude of gain or loss attributable to each of these elements.

Participant Census and Financial Data

Census data for the fiscal year October 1, 2015 through September 30, 2016 was provided by the plan administrator, the plan auditor, and the City. The data was reviewed for consistency and is believed to be reliable.

Information on Plan assets was received from the Plan's auditors. We did not audit this information; however, we believe it to be reliable.

DuLaney and Company

Donald A. DuLaney, Jr. A.S.A., E.A.

Senior Consulting Actuary

Panrong Xiao, M.A.A.A. Enrolled Actuary

DAD/PX Attachments



Table I

<u>CITY OF LAUDERHILL POLICE OFFICERS' RETIREMENT SYSTEM</u>

Summary of Retirement Plan Costs as of October 1, 2016

			Cost Data	% of Payroll
A.	<u>P</u> 2	articipant Data Summary (Table III)		
	1.	Active employees		
		a) Tier One	59	N/A
		b) Tier Two	26	N/A
		c) Total	85	N/A
	2.		12	N/A
	3.		34	N/A
	4.	1	15	N/A
	5.	Annual payroll of active employees	\$ 8,091,698	100.0%
В.	<u>Tc</u>	otal Normal Costs		
	1.	Age retirement benefits	\$ 1,723,927	21.3%
	2.	Deferred vesting benefits	200,878	2.5%
	3.	Death benefits	17,254	0.2%
	4.	Disability benefits	26,464	0.3%
	5.	Estimated expenses	156,372	1.9%
	6.	Total annual normal costs	\$ 2,124,895	26.3%
C.	<u>Tc</u>	otal Actuarial Accrued Liability		
	1.	Age retirement benefits active employees	\$ 31,036,893	383.6%
	2.	Termination benefits active employees	1,106,143	13.7%
	3.	Death benefits active employees	141,332	1.7%
	4.	Disability benefits active employees	101,066	1.2%
	5.	Retired or terminated vested participants	•	
		receiving benefits	21,298,028	263.2%
		DROP participants	16,128,006	199.3%
	7.	Terminated vested participants entitled		
		to future benefits	1,038,604	12.8%
	8.	Deceased participants whose beneficiaries		
		are receiving benefits	207,221	2.6%
	9.	F	<u>515,077</u>	6.4%
	10.	Total actuarial accrued liability	\$ 71,572,370	884.5%



Table I (continued two)

		Cost Data	% of Payroll
D.	Actuarial Value of Assets (Table VI)	\$ 57,327,084	708.5%
E.	Unfunded Actuarial Accrued Liability (CD.)	\$ 14,245,286	176.0%
F.	Actuarial Gains / (Losses) (Table VIII)	\$ 734,341	9.1%
G.	Minimum Funding Requirements		
	 Total normal cost Amortization of unfunded actuarial accrued liability Interest adjustment Total payment 	\$ 2,124,895 1,301,528 102,792 \$ 3,529,215	26.3% 16.1% 1.3% 43.6%
H.	Estimated Contribution Sources		
	 City State Employees 	\$ 2,338,596 \$ 381,449 \$ 809,170	28.9% 4.7% 10.0%
I.	Actuarial Present Value of Vested Accrued Benefits		
	 Retired, terminated vested, beneficiaries and disabled receiving benefits DROP participants Terminated vested participants 	\$ 22,020,326 16,128,006	272.1% 199.3%
	entitled to future benefits 4. Active participants entitled	1,038,604	12.8%
	to future benefits 5. Total actuarial present value	23,391,608	<u>289.1%</u>
_	of vested accrued benefits	\$ 62,578,544	773.4%
J.	Market Value of Assets (Table IV)	\$ 56,042,901	692.6%
K.	<u>Unfunded Actuarial Present Value of</u> <u>Vested Accrued Benefits</u> (I J., not less than \$0)	\$ 6,535,643	80.8%
L.	Vested Benefit Security Ratio (J. ÷ I.)	89.6%	N/A



Table II

CITY OF LAUDERHILL POLICE OFFICERS' RETIREMENT SYSTEM

Comparison of Cost Data of October 1, 2015 and October 1, 2016 Actuarial Valuations

	Column I	mn I	Colu	Column II	Column III	III III
	October 1, 2015	1, 2015	Prior Ass October	Prior Assumptions October 1, 2016	Current Assumptions October 1, 2016	sumptions
		fo%		% of		% of
	Cost Data	Annual Pay) Joseph Date	Annual	4	Annual
A. Participants	1000	1 43	Cost Data	ray	- Cost Data	Pay
 Active employees 						
- Tier One	<i>L</i> 9	N/A	59	A/N	59	A/N
- Tier Two	24	N/A	26	A/Z	76	Y X
	91	N/A	85	N/A	85	\Z
2. Terminated vested	10	N/A	12	N/A	12	N/A
3. Receiving benefits	33	K/Z	34	N/A	34	N/A
4. UKUP participants		N/A	15	N/A	15	N/A
Annual payroll of active employees	\$ 8,479,879	100.0%	\$ 8,091,698	100.0%	\$ 8,091,698	100.0%
B. Total Normal Costs	\$ 2,181,190	25.7%	\$ 2,098,839	25.9%	\$ 2,124,895	26.3%
C. Actuarial Accrued Liability	S 67,003,623	790.1%	\$ 70,790,779	874.9%	\$ 71,572,370	884.5%
D. Actuarial Value of Assets	\$ 52,511,277	619,2%	\$ 57,327,084	708.5%	\$ 57,327,084	708.5%
E. Unfunded Actuarial Accrued Liability	\$ 14,492,346	170.9%	\$ 13,463,695	166.4%	\$ 14,245,286	176.0%
F. Actuarial Gains / (Losses)	\$ 34,968	0.4%	\$ 734,341	9.1%	\$ 734,341	9.1%
G. City Minimum Funding Requirement	\$ 2,358,736	27.8%	\$ 2,237,810	27.7%	\$ 2,338,596	28.9%
H. Unfunded Actuarial Present Value of Vested Accrued Benefits*	\$ 8,000,265	94.3%	\$ 5,913,161	73.1%	\$ 6,535,643	%8'08
 Vested Benefit Security Ratio* 	86.3%	N/A	%5'06	N/A	%9.68	A/X
*Computed based on market value of assets		, and a second s				

Ratio*	
Security	
Benefit	
Vested	
-i	

Table III

CITY OF LAUDERHILL POLICE OFFICERS' RETIREMENT SYSTEM

<u>Characteristics of Participants in</u> <u>Actuarial Valuation as of October 1, 2016</u>

A. Characteristic of Active Participants

1.	Active participants as of beginning of prior year		91
2.	New entrants during prior year		7
3.	Exits during prior year		(13)
4.	Active participants as of beginning of year		85
5.	Active participants fully vested		60
6.	Active participants partially vested		0
7.	Active participants non-vested		25
8.	Annual payroll of active participants	\$	8,091,698
9.	Average pay	\$	95,196
10.	Average attained age	·	38.7 years
11.	Percent female		5.9%

B. <u>Characteristics of Inactive Participants</u>

1.	Inactives as of beginning of prior year	•	53
2.	Newly inactive during prior year	٠.	8
3.	Exits during prior year		(0)
4.	lnactives as of beginning of year		61
5.	Age retirees		30
6.	Projected annual benefit for age retirees	\$	1,720,916
7.	DROP participants	•	15
8.	Projected annual benefit for DROP participants	\$	1,310,634
9.	Beneficiaries receiving benefits		1
10.	Projected annual benefits for beneficiaries receiving benefits	\$	21,110
11.	Disabled participants receiving benefits		3
12.	Projected annual benefits for disabled participants	\$	66,754
13.	Terminated vested due deferred benefits	•	12
14.	Projected annual benefits for terminated vested participants	\$	196,856



Table IV

CITY OF LAUDERHILL POLICE OFFICERS' RETIREMENT SYSTEM

Statement of Assets as of October 1, 20161

A.	Amoto		Market Value
A.	Assets 1. Cash and Cash Equivalents		
	 Cash and Cash Equivalents Common Stocks 	\$	1,303,869
			11,355,879
	The state of the s		8,185,490
	4. Absoulte Return Equity Funds		17,760,323
	5. International Equity Funds		7,369,842
	6. Accrued Interest & Dividends Receivable		250,215
	7. Receivable City Contributions		0
	8. Receivable Employee Contributions		0
	9. Receivable Buyback Contributions		0
	10. Note Receivable		2,000,000
	11. Real Estate Fund		9,804,788
	12. Other Assets		0
	13. Assets Purchased with Receivable Buyback Contributions Paid		53,371
	14. Total Assets	\$	58,083,777
В.	Liabilities		
	1. Prepaid City Contributions	\$	0
	2. Securities Purchased Payable	Ψ	Ť
	3. Benefits Payable		213,393
	4. Unused Chapter 185 Funds		0
	5. Deferred Retirement Option Plan Accounts Payable		0
	6. Accounts Payable		1,794,218
	7. Total Liabilities		33,265
	. rota Diagningo	\$	2,040,876
C.	Grand Total (Item A.14. – Item B.7.)	<u>\$</u>	56,042,901



¹ At market value as reported by Plan's Auditors.

Table V

CITY OF LAUDERHILL POLICE OFFICERS' RETIREMENT SYSTEM

Reconciliation of Plan Assets

A.	. Market Value of Assets as of October 1, 2015						
B.	Rec	ceipts During Period					
	1.	Contributions					
		a. City	\$ 2,342,742				
		b. Employee	922,206				
		c. State (not limited by 99-1)	381,449				
		d. Total		\$	3,646,397		
	2.	Investment income		Ψ	3,040,397		
		a. Interest, dividends and					
		miscellaneous income	\$ 1,310,514				
		b. Investment expenses	(169,057)				
		c. Net		\$	1,141,457		
	3.	Net realized and unrealized appre	eciation	•	*, * 1 *, 12 /		
		a. Realized appreciation	\$ 0				
		b. Unrealized appreciation	\$ <u>3,984,373</u>				
		c. Total	· · · · · · · · · · · · · · · · · · ·	\$	3,984,373		
	4.	Receivable buyback contributions	\$	53,371			
	5.	Total receipts during period (1.d.	+2.c.+3.c.+4.	\$	8,825,598		
C.	<u>Dis</u>	bursements During Period					
	i.	Pension payments		\$	1,839,739		
	2.	DROP payments			895,005		
	3.	Contribution refunds Administrative expenses			197,402		
	4.		156,372				
	5.		0				
	6.	Decrease in receivable buyback co			7,392		
	7.	Total disbursements during period	d	\$	3,095,910		
D.	Mar	ket Value of Assets as of October	1, 2016 (A, + B.5 C.7.)	\$	57,327,084		
				<u></u>	27,227,001		
E.	Rec	conciliation of DROP Accounts Bal	ance				
	1.	DROP accounts balance as of Oct	ober 1, 2015	\$	922,420		
	2.	Benefit payments into DROP acco		*	895,005		
	3.	Disbursements from DROP accou			(83,102)		
	4.	Expenses deducted from DROP ac	counts		(03,102) (0)		
	5.	Investment gains/(losses) during y			59,895		
	6.	DROP accounts balance as of Sep	tember 30, 2016	\$	1,794,218		
		•			,		

¹ As reported by Plan's Auditors.

Table VI

CITY OF LAUDERHILL POLICE OFFICERS' RETIREMENT SYSTEM

Development of Actuarial Value of Assets

A Priliminary actuality value of assets at of a S2,511,277 \$ 46,823,896 \$ 40,582,741 \$ 34,645,341 \$ 2,529,579 \$ B. Contributions and miscellaneous income 3,646,397 \$ 3,846,296 \$ 3,943,548 \$ 3,819,200 \$ 4,773,410 \$ 3,819,201 \$ 1,169,231 \$ 1,06		-	10/1/2015 - 9/30/2016		10/1/2014 – 9/30/2015		10/1/2013 – 9/30/2014	ļ	10/1/2012 – 9/30/2013	1	10/1/2011 – 9/30/2012
3,646,397 3,846,296 3,943,548 3,819,920 4 3,088,518 2,326,407 1,500,141 1,165,613 1 3,989,266 3,568,788 3,239,846 2,787,868 2 11,122,495 (3,231,916) 628,069 2,675,998 2 180,624 (807,979) 157,017 669,000 80,666 (848,779) 669,000 80,666 (848,779) 669,000 80,666 (848,779) 669,000 80,666 (848,779) 669,000 80,666 (848,779) 669,000 80,666 (848,779) 669,000 80,666 (848,779) 669,000 80,666 (848,779) 669,000 80,666 (848,779) 669,000 80,666 (848,779) 669,000 80,666 (848,779) 669,000 80,666 (848,779) 669,000 80,666 (848,779) 669,000 80,666 (848,779) 669,000 80,666 (848,779) 669,000 80,666 (848,779) 669,000 80,666 (848,779) 669,000 80,666 (848,779) 80,666 (848,779) 80,666 (848,779) 80,666 (848,779) 80,666 80,666 (848,779) 80,666	as of	6∕9	52,511,277	5/9	46,823,896	€9	40,582,741	64	34,645,341	6-9	29,529,579
1,122,495 3,568,788 3,239,846 2,787,868 2 3,959,266 3,568,788 3,239,846 2,787,868 2 1,122,495 (3,231,916) 628,069 2,675,998 2 280,624 (807,979) 157,017 669,000 880,666 (848,779) 669,000 880,666 (848,779) 669,000 880,666 (848,779) 669,000 880,666 (848,779) 669,000 880,666 (848,779) 669,000 880,666 (848,779) 669,000 880,666 (848,779) 669,000 880,666 (848,779) 669,000 880,666 (848,779) 669,000 880,666 (848,779) 880,662 598,704 557,904 495,225 (87,327,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ 34,4834,321 60,439,901 88,779,748 \$ 3,283,093 \$ 1,58,7327,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ 34,582,741 \$ 34,582,741 \$ 34,582,741 \$ 3,283,093 \$ 1,582,741 \$ 34	псоте		3,646,397		3,846,296		3,943,548		3,819,920		4,377,410
3,959,266 3,568,788 3,239,846 2,787,868 2 1,122,495 (3,231,916) 628,069 2,675,998 2 280,624 (807,979) 157,017 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,704 \$ 557,327,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ 34,834,321 60,439,901 58,370,357 50,755,272 41,58 \$ 44,257,928 \$ 41,67,492 \$ 3,797,748 \$ 3,283,093 \$ 1,582,741 \$ 34,834,321 \$ 55,511,277 \$ 46,823,896 \$ 40,582,741 \$ 34,834,321 \$ 55,511,277 \$ 46,823,896 \$ 40,582,741 \$ 34,834,321 \$ 55,511,277 \$ 50,525,741 \$ 34,834,321 \$ 55,511,277 \$ 50,525,741,741 \$ 50,525,741 \$ 50,525,741 \$ 50,525,741 \$ 50,525,741 \$ 50,5	Benefit payments and administrative expenses		3,088,518		2,326,407		1,500,141		1,165,613		1.169.231
3,959,266 3,568,788 3,239,846 2,787,868 2 1,122,495 (3,231,916) 628,069 2,675,998 2 280,624 (807,979) 157,017 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,779] 669,000 580,779] 8 57,327,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ 34,587,928 \$ 4,167,492 \$ 3,797,748 \$ 3,283,093 \$ 1,587,327,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ 34,582,741 \$ 34,582,741 \$ 5,84,642,901 \$ 50,752,724 \$ 1,782,748 \$ 1,782,74	 D. Actual investment earnings net of investment expenses 		5,081,761		336,872		3,867,913		5,463,866		4,735,524
3,959,266 3,568,788 3,239,846 2,787,868 2 1,122,495 (3,231,916) 628,069 2,675,998 2 280,624 (807,979) 157,017 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 67,327,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ 34,527,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ 34,582,741 \$ 34,582,741 \$ 5,525,11,277 \$ 46,823,896 \$ 5,283,093 \$ 11,527,084 \$ 52,511,277 \$ 46,823,896 \$ 5,283,093 \$ 11,527,084 \$ 52,511,277 \$ 46,823,896 \$ 5,283,093 \$ 5,1527,084 \$ 52,511,277 \$ 46,823,896 \$ 5,283,093 \$ 5,1527,084 \$ 52,511,277 \$ 5,045,233,896 \$ 5,283,093 \$ 5,1527,084 \$ 52,511,277 \$ 5,045,233,896 \$ 5,283,093 \$ 5,1527,084 \$ 52,511,277 \$ 5,045,233,896 \$ 5,283,093 \$ 5,1527,084 \$ 52,511,277 \$ 5,045,233,896 \$ 5,283,093 \$ 5,1527,084 \$ 52,511,277 \$ 5,045,233,896 \$ 5,283,093 \$ 5,1527,084 \$ 52,511,277 \$ 5,045,233,896 \$ 5,283,093 \$ 5,1527,084 \$ 52,511,277 \$ 5,045,233,896 \$ 5,283,093 \$ 5,1527,084 \$ 52,511,277 \$ 5,045,233,896 \$ 5,283,093 \$ 5,1527,084 \$ 52,511,277 \$ 5,045,233,896 \$ 5,045,237,411											
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1,122,495 (3,231,916) 628,069 2,675,998 2 280,624 (807,979) 157,017 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 669,000 580,666 (848,779) 87,327,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ 34,834,321 \$ 57,327,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ 34,834,321 \$ 57,327,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ 34,834,321 \$ 57,327,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ 34,845,742 \$ 57,327,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ 34,845,842 \$ 57,327,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ 34,845,842 \$ 57,327,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ 34,845,842 \$ 57,327,084 \$ 52,511,277 \$ 46,823,896 \$ 54,6582,741 \$ 54,823,741 \$ 54,	ent										
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\$\begin{array}{c ccccccccccccccccccccccccccccccccccc	ears										
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\$ 57,327,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ 34, 44,834,321 \$ 57,327,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ 34, 44,834,321 \$ 60,439,901 \$ 57,327,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ 34, 84,834,321 \$ 60,439,901 \$ 58,370,357 \$ 50,755,272 \$ 41, 5 57,327,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ 34, 8 57,327,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ 34, 8 57,327,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ 34, 8 55,327,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ 34, 8 55,327,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ 34, 8 57,327,084 \$ 52,511,277 \$ 46,823,896 \$ 5,40,582,741 \$ 34, 8 57,327,084 \$ 52,511,277 \$ 46,823,896 \$ 5,40,582,741 \$ 5,40,582,7			(807,979)		157,017		000,699		580,666		(848,779)
\$ 57,327,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ 34, 44,834,321 \$ 57,327,084 \$ 52,511,277 \$ 46,823,896 \$ 42,296,060 \$ 34, 44,834,321 \$ 60,439,901 \$ 58,370,357 \$ 50,755,272 \$ 41, 5 42,27,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ 34, 8 4,257,928 \$ 4,167,492 \$ 3,797,748 \$ 3,283,093 \$ 1, 5 57,327,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ 34, 8 57,327,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ 34, 8 57,327,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ 34, 8 57,327,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ 34, 8 57,327,084 \$ 52,511,277 \$ 46,823,896 \$ 5,00582,741 \$ 34, 8 57,327,084 \$ 52,511,277 \$ 46,823,896 \$ 5,00582,741 \$ 5,00582			157,017		669,000		280,666		(848,779)		94,338
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\$ 57,327,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ 34 1f. \$ 56,042,901 \$ 50,366,584 \$ 48,641,964 \$ 42,296,060 \$ 34,44,834,321 \$ 40,293,267 \$ 38,913,571 \$ 33,846,848 \$ 27,521,481 \$ 60,439,901 \$ 58,370,357 \$ 50,755,272 \$ 41,834,321 \$ 4,257,928 \$ 4,167,492 \$ 3,797,748 \$ 3,283,093 \$ 1,58 \$ 57,327,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ 34,557,928 \$ 4,167,492 \$ 3,797,748 \$ 3,283,093 \$ 1,58 \$ 57,327,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ 34,582,741 \$ 5,842,741			298,662		598,704		557,904		495,225		(505,276)
\$ 57,327,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ 56,042,901 \$ 50,366,584 \$ 48,641,964 \$ 42,296,060 \$ 44,834,321 \$ 40,293,267 \$ 38,913,571 \$ 33,846,848 \$ 67,251,481 \$ 60,439,901 \$ 58,370,357 \$ 50,755,272 \$ \$ 4,257,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ \$ \$ 57,327,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ \$ \$ 57,327,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	l of										
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\$ 57,327,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ \$ 4,257,928 \$ 4,167,492 \$ 3,797,748 \$ 3,283,093 \$ \$ \$ 57,327,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ \$			44,834,321		40,293,267		38,913,571		33,846,848		27.415.870
\$ 57,327,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ 8 4,257,928 \$ 4,167,492 \$ 3,797,748 \$ 3,283,093 \$ \$ 57,327,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$			67,251,481		60,439,901		58,370,357		50,755,272		41,123,806
\$ 57,327,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ 3 \$ 4,257,928 \$ 4,167,492 \$ 3,797,748 \$ 3,283,093 \$ \$ 57,327,084 \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ 3											
\$ 4,167,492 \$ 3,797,748 \$ 3,283,093 \$ \$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ 3	an 1.3.)	€43	57,327,084	6/3	52,511,277	6/3	46,823,896	69	40,582,741	69	34,645,341
\$ 52,511,277 \$ 46,823,896 \$ 40,582,741 \$ 3		6-5	4,257,928	6∕9	4,167,492	5/3	3,797,748	69	3,283,093	æ	1,907,583
		6 2	57,327,084	S	52,511,277	69	46,823,896	69	40,582,741	€	34,645,341

Table VII

CITY OF LAUDERHILL POLICE OFFICERS' RETIREMENT SYSTEM

History of Chapter 185 Contribution Usage

Under the provisions of Florida Statutes Chapter 185, as amended by Chapter 99-1, increments in Chapter 185 contributions over the amount for 1997 must first be used to fund the cost of meeting minimum benefit requirements. After the minimum requirements are met, any additional Chapter 185 contributions received must be used to provide extra benefits. The following is an accounting of the contributions received and the amounts used for compliance.

A. Benefit improvements needed to meet Chapter 185 minimum benefits:

None.

B. History of Chapter 185 contribution usage*

		Adju	sted	Base An	nou	nt	-1	Actu	al Ar	nount Re	ceiv	ed
										***		umulative Excess of
Received			_		~	Total				cess of		ctual over
	CI		·	ost for		hapter 185				tual over		se Amount
During		napter 185		New	C	ontribution		apter 185		Base		without
Plan Year	<u></u>	ntribution	Е	enefits	_	Used	Co	ntribution	A	mount		Interest
1999/2000	\$	0	\$	92,774	\$	92,774	\$	126,081	\$	33,307	\$	33,307
2000/2001	\$	92,774	\$	0	\$	92,774	\$	131,250	\$	38,476	\$	71,783
2001/2002	\$	92,774	\$	175,245	\$	268,019	\$	153,775	\$	0	\$	71,783
2002/2003	\$	268,019	\$	0	\$	268,019	\$	190,235	\$	0	\$	71,783
2003/2004	\$	268,019	\$	236,780	\$	504,799¹	\$	249,479	\$	0	\$	01
2004/2005	\$	504,799	\$	0	\$	•	\$	243,140	\$	0	\$	0
2005/2006	\$	504,799	\$	0	\$	504,799	\$	249,845	\$	0	\$. 0
2006/2007	\$	504,799	\$	0	\$	504,799	\$	267,834	\$	ő	\$	0
2007/2008	\$	504,799	\$	0	\$	504,799	\$	298,188	\$	0	\$	0
2008/2009	\$	504,799	\$	0	\$	504,799	\$	350,408	\$	0	\$	0
2009/2010	\$	504,799	\$	0	\$	504,799	\$	332,466	\$	0	\$	0
2010/2011	\$	504,799	\$	0	\$	504,799	\$	285,072	\$	Õ	\$	ő
2011/2012	\$	504,799	\$	0	\$	504,799	\$	303,327	\$	0	\$	ō
2012/2013	\$	504,799	\$	0	\$	504,799	\$	310,332	\$	0	\$	0
2013/2014	\$	504,799	\$	0	\$	504,799	\$	356,564	\$	0	\$	Ŏ
2014/2015	\$	504,799	\$	0	\$	504,799	\$	365,170	\$	0	\$	0
2015/2016	\$	504,799	\$	0	\$	504,799	\$	381,449	\$	0	\$	0

^{*} Figures prior to the 2006/2007 plan year were as reported by the plan's prior actuary.



A one-time use in the amount of \$71,783 from the Cumulative Excess also occurred.

Table VIII

CITY OF LAUDERHILL POLICE OFFICERS' RETIREMENT SYSTEM

Actuarial Gains / (Losses) for Current and Prior Plan Years

A. Derivation of Actuarial Gain / (Loss) for Plan Year Ended September 30, 2016

		· · · · · · · · · · · · · · · · · · ·		
	1. City and State normal cost previous valuation	\$ 1,333,202		
	2. Unfunded actuarial accrued liability previous valuation	\$14,492,346		
	3. City and State contributions previous year (limited by 99-1)	\$ 2,724,191		
	4. Interest on:	· -,·-·,		
	(a) City normal costs \$ 99,990			
	(b) Unfunded actuarial			
	accrued liability 1,086,926			
	(c) City and State			
	contributions 90,237			
	(d) Net total: (a) + (b) - (c)	\$ 1,096,679		
	Increase in unfunded actuarial accrued liability			
	due to plan amendment	\$ 0		
	6. Increase in unfunded actuarial accrued liability			
	due to assumptions / methods change	\$ 781,591		
	7. Expected unfunded actuarial accrued liability			
	current year: $1. + 2 3. + 4. + 5. + 6.$	\$14,979,627		
	8. Actual unfunded actuarial accrued liability current year	\$14,245,286		
	9. Actuarial gain / (loss): 7 8.	\$ 734,341		
B.	Approximate Portion of Plan Year Gain / (Loss) Due to Investments			
	1. Actuarial value of assets previous year	050 51:1 077		
	2. Contributions during year	\$52,511,277 \$-2,646,307		
	3. Disbursements during year (expenses & benefits)	\$ 3,646,397		
	4. Expected appreciation for period	\$ 3,088,518 \$ 3,947,347		
	5. Expected actuarial value of assets current year	<u>\$ 3,747,347</u>		
	1. + 2 3. + 4.	\$57,016,503		
	6. Actual actuarial value of assets current year	\$57,327,084		
	7. Approximate gain / (loss): 6 5.	\$ 310,581		
		,		
C.	Approximate Portion of Plan Year			
	Gain / (Loss) Due to Liabilities: A B.	\$ 423,760		



Table VIII (continued two)

D. Review of Cumulative Actuarial Gains / (Losses) for Determination of 13th Checks to Retirees for the 2015/2016 Plan Year

Plan Year	Actuarial Gains / (Losses)			
2004 / 2005	\$ (1,323,287)			
2005 / 2006	(1,289,042)			
2006 / 2007	374,572			
2007 / 2008	(35,607)			
2008 / 2009	(2,228,287)			
2009 / 2010	(887,495)			
2010 / 2011	(2,335,636)			
2011 / 2012	(1,285,896)			
2012 / 2013	(640,982)			
2013 / 2014	368,363			
2014 / 2015	34,968			
2015 / 2016	734,341			
Cumulative Total Gains / (Losses)	\$ (8,513,988)			

Requirements for 13th Check to members Retired on or after 10/1/2004:

- There must be a net actuarial gain during the most recent plan year based on the experience of the plan from all sources
- There must be an investment gain during the most recent plan year
- There must be cumulative net actuarial gains from inception (requirement by the State)
- 13th check payable to Tier One members only



Table IX

<u>CITY OF LAUDERHILL POLICE OFFICERS' RETIREMENT SYSTEM</u>

Amortization of Unfunded Liability

Date	Total Unfunded Liability	Amortization Payment
10/01/2016	\$ 14,245,286	\$ 1,301,528
10/01/2017	\$ 13,914,540	\$ 1,301,528
10/01/2018	\$ 13,558,988	\$ 1,301,528
10/01/2019	\$ 13,176,770	\$ 1,301,528
10/01/2046	\$ 0	\$ 0



Table X

CITY OF LAUDERHILL POLICE OFFICERS' RETIREMENT SYSTEM

Accounting Disclosure Exhibit

I.	Number of Plan Participants	10/01/2015	10/01/2016			
	 Retirees, disabled and beneficiaries receiving benefits Terminated plan participants entitled to 	33	34			
	but not yet receiving benefits	10	12			
	3. DROP participants	10	15			
	4. Active plan participants	91	85			
	5. Total	144	146			
Π.	Financial Accounting Standards Board Allocations as of October 1, 2016					
	A. Statement of Accumulated Plan Benefits					
	Actuarial present value of accumulated vested plan benefits					
	 Participants currently receiving benefits 	\$ 20,981,006	\$ 22,020,326			
	b. DROP participants	11,056,074	16,128,006			
	c. Participants due deferred vested benefits	807,374	1,038,604			
	d. Others	<u>25,522,395</u>	23,391,608			
	e. Total	\$ 58,366,849	\$ 62,578,544			
	2. Actuarial present value of accumulated non-vested					
	plan benefits	<u>813,081</u>	1,210,483			
	3. Total actuarial present value of accumulated					
	plan benefits	\$ 59,179,930	\$ 63,789,027			
	B. Statement of Change in Accumulated Plan Benefits					
	1. Actuarial present value of accumulated					
	plan benefits as of October 1, 2015	\$ 59,179,93	30			
	2. Increase (decrease) during year attributable to:	_				
	a. Plan amendment		0			
	b. Actuarial assumptions and method changes	654,24				
	c. Benefits paid and contribution refundsd. Other, including benefits accumulated	(2,932,14	16)			
	d. Other, including benefits accumulated and increase for interest due to decrease					
	in the discount period	6,886,99)4			
	e. Net increase		\$ 4,609,097			
	3. Actuarial present value of accumulated plan					
	benefits as of October 1, 2016	\$ 63,789,02	27			



Table X (continued two)

C. Significant Matters Affecting Calculations

- Assumed rate of return used in determining actuarial present values
 Plan amendments
- 3. Change in actuarial assumptions

7.50%

None.

See Table XII, Item 12.



A

Table X (continued three)

Schedule of Funding Progress (As required by GASB #25)

III.

(2)	UAAL as % of	Payro]]	(4)/(6)	(12.9%)	(6.0%)	9.2%	5.1%	24.6%	22.7%	44.8%	56.3%	82.1%	%9.99	70.0%	86.2%	91.2%	146.8%	158.6%	149.5%	152.4%	170.9%	176.0%
(4) Unfunded (3)	(9)	Annual Covered	Payroll	3,106	3,870	3,851	3,561	\$ 4,212	5 4,998	5,256	6,519	7,099	8,103	3,678	8,751	9,149	8,819	8,844	9,671	9,712	8,480	8,092
	(5)	Funded Ratio Ar	(2) / (3)	138.9%	121.5%	88.0%	94.6%	\$ %0.62	81.5%	73.3%	70.2%	67.2%	75.2% \$	78.6%	75.4% \$	76.5% \$	8 %5.69	71.2% \$	73.7% \$	76.0%	78.4% \$	80.1% \$
	Actuarial Accrued	Liability (UAAL)	(3) - (2)	\$ (402)	\$ (350)	\$ 354	\$ 182	\$ 1,035	\$ 1,136	\$ 2,354	\$ 3,670	\$ 5,827	\$ 5,399	\$ 5,377	\$ 7,546	\$ 8,346	\$ 12,943	\$ 14,025	\$ 14,456	\$ 14,802	\$ 14,492	\$ 14,245
	(3)	Actuarial Accrued	Liability (AAL)	\$ 1,033	\$ 1,628	\$ 2,959	\$ 3,343	\$ 4,934	\$ 6,124	\$ 8,816	\$ 12,331	\$ 17,767	\$ 21,747	\$ 25,153	\$ 30,634	\$ 35,483	\$ 42,473	\$ 48,670	\$ 55,039	\$ 61,626	\$ 67,003	\$ 71,572
	(2)	Actuarial Value of	Assets (AVA)	\$ 1,435	\$ 1,978		\$ 3,161	\$ 3,899	\$ 4,990	\$ 6,462	\$ 8,661	\$ 11,940	\$ 16,348	\$ 19,775							\$ 52,511	\$ 57,327
		(1)	Valuation Date	October 1, 1998	October 1, 1999	October 1, 2000	October 1, 2001	October 1, 2002	October 1, 2003	October 1, 2004	October 1, 2005	October 1, 2006	October 1, 2007	October 1, 2008	October 1, 2009	October 1, 2010	October 1, 2011	October 1, 2012	October 1, 2013	October 1, 2014	October 1, 2015	October 1, 2016

Note: Dollar amounts in thousands

Table X (continued four)

IV. Schedule of Employer Contributions (As required by GASB #25)

Plan	Annual Required	Percentage
Year	Contribution ¹	Contributed
(1)	(2)	(3)
1997	\$ 295,719	100%
1998	304,195	100%
1999	392,661	100%
2000	492,397	100%
2001	458,942	100%
2002	636,674	100%
2003	847,764	100%
2004	1,151,914	100%
2005	1,415,977	100%
2006	1,782,115	100%
2007	2,095,909	100%
2008	2,076,113	100%
2009	2,320,278	100%
2010	2,306,698	100%
2011	2,629,422	100%
2012	2,769,493	100%
2013	2,872,191	100%
2014	2,831,755	100%
2015	2,723,906	100%

V. Notes to Required Supplementary Information

The information presented in the required supplementary schedules was determined as part of the actuarial valuations at the dates indicated. Additional information as of the latest actuarial valuation follows:

Valuation Date	October 1, 2016
Actuarial cost method	Entry Age Normal Level Percent
Amortization method	Layered amortization
Remaining amortization period	20 - 30 years
Asset valuation method	See Table XII., Item 8.
Actuarial assumptions:	*
Investment rate of return*	7.50%
Projected salary increases*	5.50%
Cost-of-living adjustments	Variable 13th check, only if plan
	has cumulative net actuarial gain

^{*} Includes inflation at 3.00%



¹ Sum of City and State contributions, determined by the prior plan year's actuarial valuation.

Table X (continued five)

Accounting Disclosure Exhibit

VI. Revenues by Source and Expenses by Type

		Re	venues by Source	:	
Plan	Employee	City	State	Investment	
Year	Contributions	Contributions	Contributions	Income	Total
2016	\$ 922,206	\$ 2,342,742	\$ 381,449	\$ 5,125,830	\$ 8,772,227
2015	\$ 1,014,541	\$ 2,466,585	\$ 365,170	\$ 411,693	\$ 4,257,989
2014	\$ 1,071,357	\$ 2,515,627	\$ 356,564	\$ 3,969,647	\$ 7,913,195
2013	\$ 1,050,427	\$ 2,459,161	\$ 310,332	\$ 5,587,659	\$ 9,407,579
2012	\$ 1,727,565	\$ 2,346,518	\$ 303,327	\$ 4,735,524	\$ 9,112,934
2011	\$ 1,151,187	\$ 2,047,326	\$ 285,072	\$ (1,049,572)	\$ 2,434,013
2010	\$ 1,216,237	\$ 1,987,812	\$ 332,466	\$ 2,402,257	\$ 5,938,772
2009	\$ 1,016,6 3 8	\$ 1,725,705	\$ 350,408	\$ 426,617	\$ 3,519,368
2008	\$ 909,416	\$ 1,797,721	\$ 298,188	\$ (2,110,118)	\$ 895,207
2007	\$ 912,303	\$ 1,514,281	\$ 267,834	\$ 2,018,977	\$ 4,713,395

		Expenses by Type		
Plan	Benefits &			
<u>Year</u>	DROP Payments	Expenses	Refunds	Total
2016	\$ 2,734,744	\$ 325,429	\$ 197,402	\$ 3,257,575
2015	\$ 2,054,191	\$ 297,412	\$ 43,562	\$ 2,395,165
2014	\$ 1,299,498	\$ 263,851	\$ 73,108	\$ 1,636,457
2013	\$ 1,048,524	\$ 238,769	\$ 2,113	\$ 1,289,406
2012	\$ 856,954	\$ 240,899	\$ 181,798	\$ 1,279,651
2011	\$ 563,461	\$ 217,865	\$ 148,865	\$ 930,191
20 10	\$ 337,823	\$ 196,024	\$ 84,274	\$ 618,121
2009	\$ 252,181	\$ 178,144	\$ 79,944	\$ 510,269
2008	\$ 146,620	\$ 159,146	\$ 80,045	\$ 385,811
2007	\$ 124,873	\$ 145,765	\$ 37,824	\$ 308,462

Contributions were made in accordance with actuarially determined contribution requirements.



Table XI

CITY OF LAUDERHILL POLICE OFFICERS' RETIREMENT SYSTEM

Outline of Principal Provisions of the Plan

1. Effective Date

July 25, 1994. The latest amendment reflected is Ordinance 14R-09-152.

2. Eligibility Requirements

Participation is mandatory for all full-time police officers employed by the City with the exception of the Police Chief. Members hired by the City on or after March 23, 2009 are classified as Tier Two members. All other members are Tier One members.

3. <u>Credited Service</u>

Service of a member from employment date through termination date measured in years and completed months. A member may buy back up to a total of five (5) years of prior military and sworn police service by paying the full actuarial cost of the increase service. Service purchased does not count for vesting or retirement eligibility.

4. Earnable Compensation

<u>Tier One members</u>: base pay, longevity pay, educational incentive pay, assignment pay and up to 300 hours of overtime pay per year, as well as payouts for accrued holiday/incentive, vacation and/or sick time earned prior to September 30, 2013 based on the member's rate of pay as of September 30, 2016.

<u>Tier Two members</u>: base pay, longevity pay, educational incentive pay, assignment pay and up to 300 hours of overtime pay per year.

5. Final Monthly Compensation (FMC)

Final Monthly Compensation is the average monthly rate of earnable compensation during the five (5) best years out of the last ten (10) years of employment.

6. Employee Contributions

10.0% of earnable compensation.

7. Normal Retirement Date

<u>Tier One members</u>: the first of the month coincident with or next following the earlier of (i) completion of 20 years of Credited Service or (ii) the attainment of age 55 with completion of five (5) years of Credited Service.

<u>Tier Two members</u>: the first of the month coincident with or next following the earlier of (i) completion of 25 years of Credited Service or (ii) the attainment of age 55 with completion of 10 years of Credited Service.



Table XI (continued two)

8. Amount of Normal Retirement Income

<u>Tier One members</u>: monthly retirement income is equal to 3.0% times FMC for Credited Service through September 30, 2001 plus 3.5% times FMC for Credited Service thereafter, payable under the normal form of payment under the plan. For members employed by the City as of April 25, 2011, monthly retirement income for years of Credited Service prior to October 1, 2001 is 3.5% times FMC. The maximum accrual is 100% of FMC.

<u>Tier Two members</u>: monthly retirement income is equal to 3.0% times FMC for all years of Credited Service, payable under the normal form of payment under the plan. The maximum accrual is 75% of FMC. However, members are allowed to purchase an increase in their multiplier up to 3.5% per year (from 3.0%) by paying the full actuarial costs. Any enhanced multiplier benefit purchased will not be subject to the 75% of FMC maximum, but the maximum accruals for members with such purchases will not exceed 100% of FMC.

9. Early Retirement Date

The attainment of age 50 and completion of 10 years of Credited Service.

10. Amount of Early Retirement Income

Benefit accrued to Early Retirement Date payable at Normal Retirement Date, with a 3.0% per year reduction for benefit commencement prior to Normal Retirement Date.

11. Delayed Retirement Date

A member may continue to work beyond his Normal Retirement Date and retire on any subsequent first day of the month.

12. Amount of Delayed Retirement Income

The benefit accrued on Delayed Retirement Date.

13. Benefits on Termination of Service

In the event of termination of service prior to Normal Retirement Date or Early Retirement Date, for reasons other than death, early retirement or disability, a monthly benefit will be payable commencing on Normal Retirement Date, equal to the benefit accrued up to the date of termination, or the refund of accumulated employee contributions made, if the terminated member has completed:

Tier One members: five (5) or more years of Credited Service

Tier Two members: seven (7) or more years of Credited Service

Otherwise, the member is entitled only to the refund of accumulated employee contributions made.

Table XI (continued three)

14. Disability Retirement Benefits

For a member totally and permanently disabled where the disability is service-connected, the monthly benefit shall be equal to the greater of 42% of such member's FMC at the time of disability or the member's accrued benefit under the plan.

In order to be eligible for non-service disability benefits, a member must have completed at least ten (10) years of Credited Service at the date of disability. The non-service disability benefit is equal to the greatest of: i) 2.0% of FMC times years of Credited Service; ii) 25.0% of FMC, and iii) accrued benefit at date of disability.

15. Death Benefits

For deaths prior to completion of five (5) years of Credited Service, the benefit would be the refund of the accumulated employee contributions. With the completion of five (5) or more years of Credited Service the death benefit payable would be the benefit otherwise payable at Early Retirement Date or Normal Retirement Date to the member.

Normal Form of Retirement Income

The normal form of payment is a ten year certain and life annuity.

17. Optional Forms of Retirement Income

The following optional forms of retirement income may be elected by a member without presenting evidence of good health, if elected at least one year prior to his date of retirement:

Option 1 A single life annuity payable during the lifetime of the participant only.

Option 2 A retirement annuity payable to the member during the joint lifetime of the member and a joint pensioner designated by the member, and following the death of either of them, 50%, 66-2/3%, 75%, or 100% depending on the retiree's election, of such smaller monthly amount payable to the survivor for the lifetime of the survivor.

18. Deferred Retirement Option Plan (DROP)

The DROP is available only if the member makes an irrevocable election to participate upon the eligibility of Normal or Early Retirement. The DROP has a five (5) year maximum participation period. Depending on when a member enters the DROP and the election that is made, the DROP account will be credited with the annual assumed investment return per year, or the actual rate of return, net of investment fees. There is a guarantee that upon exiting the DROP, a member's account will not be less than the sum of the monthly payments into the DROP account. If the member dies or becomes disabled during the DROP period, the member will have presumed to have retired on a normal retirement on the day prior to disability or death.



Table XI (continued four)

19. Variable Thirteenth Check

For Tier One members retiring on or after October 1, 2004, 13th checks may be paid based on annual investment and actuarial gains, but only if the plan has cumulative net actuarial gain beginning with the 2004/2005 plan year. The amount of the 13th checks shall be computed as a uniform percentage of the current monthly benefits of the applicable retirees, with the actual amounts limited to the current monthly benefits and prorated for those retired less than a year.

Tier Two members will not be eligible for the variable thirteenth checks.

20. Post Retirement Supplement

A supplemental payment of \$10 per month per year of Credited Service for all members employed by the City on or after April 25, 2011, provided that such members have at least 20 years of Credited Service with the City or provided such members left the City at age 55 or older with more than five (5) years of Credited Service with the City. The supplement shall commence on the fifth anniversary date of termination of service and shall cease upon the member reaching 65 years of age.

21. Changes from Most Recent Valuation

None.



Table XII

CITY OF LAUDERHILL POLICE OFFICERS' RETIREMENT SYSTEM

Actuarial Assumptions and Actuarial Cost Methods

1. Mortality:

Female Non-Disabled: RP2000 Generational, 100% Annuitant White Collar, Scale BB Male Non-Disabled: RP2000 Generational, 10% Annuitant White Collar / 90% Annuitant Blue

Collar, Scale BB

Female Disabled: 60% RP2000 Disabled Female set forward two years / 40% Annuitant White Collar with no setback, no projection scale

Male Disabled: 60% RP2000 Disabled Male setback four years / 40% Annuitant White Collar with no setback, no projection scale

2. Interest to be Earned by Fund:

7.50%, compounded annually, net of investment expenses.

3. Allowances for Administrative Expenses:

Actual administrative expenses paid during the prior plan year.

4. Employee Withdrawal Rates:

Withdrawal rates were used in accordance with a table per the following illustrative example:

Age	Withdrawal Rates Per 100 Employees
20	6.0
25	5.7
30	5.0
35	3.8
40	2.6
45	1.6
50	0.5
55 & over	0.0

5. Retirement Age Assumption:

<u>Tier One members</u>: the earlier of the completion of 20 years of Credited Service or the attainment of age 55 with completion of five (5) years of Credited Service.

<u>Tier Two members</u>: the earlier of the completion of 25 years of Credited Service or the attainment of age 55 with completion of 10 years of Credited Service.

Table XII (continued two)

6. Salary Increase Factors:

Current salaries are assumed to increase at a rate of 5.5% per year until retirement. In addition, accumulated sick and vacation leaves cash outs are added to the final pay.

7. Disability Rates:

Disability incidence rates were used in accordance with a table per the following illustrative example:

Age	Disability Rates Per100 Employees
20	0.03
25	0.03
30	0.04
35	0.05
40	0.07
45	0.10
50	0.18
55	0.36
60	0.90
65 & over	0.00

75% of disabilities assumed to be service incurred, 25% assumed to be non-service incurred.

8. Asset Valuation Method:

The actuarial value of assets is determined by smoothing the differences between actual investment earnings and assumed investment return over four (4) years. The resulting value would then be limited to between 80% and 120% of market value.

Table XII (continued three)

9. Actuarial Cost Method:

Normal Retirement, Termination, Disability and Pre-Retirement Death Benefits: Entry-Age-Actuarial Cost Method.

Under this method the normal cost for each active employee is the amount which is calculated to be a level percentage of pay that would be required annually from his date of hire to his retirement age to fund his estimated benefits, assuming the plan had always been in effect. The normal cost for the plan is the sum of the individual normal costs for all active participants. The actuarial accrued liability as of any valuation date for each active employee or inactive employee who is eligible to receive benefits under the plan is the excess of the actuarial present value of estimated future benefits over the actuarial present value of current and future normal costs. The unfunded actuarial accrued liability as of any valuation date is the excess of the actuarial accrued liability over the actuarial value of assets of the plan.

The amortization bases would be funded by the excess of actual contributions over prior year's normal cost, adjusted with interest. For each existing base, the funding is done proportionally, determined based on the individual base's required amortization payment as a percentage of the overall total required total amortization payment for the prior year. New bases are then added to the total outstanding unfunded actuarial accrued liability as new layers.

10. Marriage Assumptions:

100% of active participants were assumed married, with husbands three (3) years older than wives.

11. <u>Inflation Assumption:</u>

3.0% per year.

12. Changes from Last Actuarial Valuation:

- 1) The assumed administrative expenses were changed from \$154,489 to \$156,372 for the plan/fiscal year.
- 2) The mortality table was changed from the RP2000 generational rates to FRS table.

 A

Table XIII

CITY OF LAUDERHILL POLICE OFFICERS' RETIREMENT SYSTEM

Distribution of Active Participants by Age and Service Groups as of October 1, 2016

Years of Credited Service

Total	11 19 17 16 15 5 10 0	
30 & Over		
25 - 29		
<u>20 - 24</u>		38.7 years \$95,196 5.9%
15 - 19		38.6 years \$93,185 6.6%
10 - 14		38.4 \$\$.4
5.9	3 · · · · · · · · · · · · · · · · · · ·	Average Attained Age Average Covered Pay Percent Female
0 - 4	188	Averag Averag Percent
Age	Under 25 25 - 29 30 - 34 35 - 39 40 - 44 45 - 49 50 - 54 55 - 59 60 - 64 65 & Over TOTAL	

Table XIV

CITY OF LAUDERHILL POLICE OFFICERS' RETIREMENT SYSTEM

Reconciliation of Participant Data

A. Active Participants 1. Active participants previous year 91 2. Retired during year (0)3. Entered DROP during year (6)4. Died during year 0 5. Disabled during year 0 6. Terminated vested during year (2)7. Terminated non-vested during period (5)8. New active participants 7 9 Rehired / Reinstated 0 10. Active participants current year 85 B. Participants Receiving Benefits 1. Participants receiving benefits previous year 33 2. New retired participants 0 3. New terminated vested receiving benefits 0 4. New disabled receiving benefits 0 5. New beneficiaries receiving benefits 0 6. DROP participants exited and retired 1 7. Died or ceased payment during year 0 8. Retired or terminated vested receiving benefits current year 34 C. Terminated Participants Entitled to Future Benefits 1. Terminated participants entitled to future benefits previous year 10 2. Died during year 0 3. Commenced receiving benefits during year (0)4. Rehired / Reinstated during year 0 5. New terminated participants 2 6. Terminated participants entitled to future benefits current year 12 D. <u>DROP Participants</u> 1. DROP participants previous year 10 2. New entrants during year 6 3. Died during year 0 4. Exited and retired during year (1)

5. DROP participants current year



15

Table XV

CITY OF LAUDERHILL POLICE OFFICERS' RETIREMENT SYSTEM

Statistics for Participants Entitled to Deferred Vested Benefits and Participants Receiving Payments

A. Entitled to Deferred Benefits

Current Age		Total Annual	Average Annual
Group	<u>Count</u>	<u>Benefit</u>	<u>Benefit</u>
Less than 40	5	\$ 134,579	\$ 26,916
40 - 44	2	19,452	9,726
45 - 49	3	42,825	14,275
50 - 54	0	0	0
55 - 59	0	0	0
60 - 64	0	0	0
65 & over	_0	0	0
TOTAL	10	\$ 196,856	\$ 19,686

B. Receiving Benefits & DROP Participants

Current Age Group	Count	Total Annual Benefit	Average Annual Benefit
Less than 40	0	\$ 0	\$ 0
40 - 44	1	77,078	77,078
45 – 49	18	1,475,359	81,965
50 - 54	9	626,362	69,596
55 - 59	7	495,915	70,845
60 - 64	6	283,495	47,249
65 & over	<u>8</u>	161,205	<u>20,151</u>
TOTAL	49	\$ 3,119,414	\$ 63 662



Table XVI

CITY OF LAUDERHILL POLICE OFFICERS' RETIREMENT SYSTEM

Recent Investment, Salary Increase, and Turnover Experience

A. <u>Investment Return</u>

Comparison of actual to assumed investment return for the last five years:

_		Rate of Return	
Year Ended	Market Value	Actuarial Value	Assumed
09/30/2016	10.2%	8.1%	7.50%
09/30/2015	1.2%	8.8%	7.50%
09/30/2014	9.2%	9.1%	7.75%
09/30/2013	16.1%	9.1%	7.75%
09/30/2012	17.4%	6.1%	7.75%
Last 3 Yrs.	6.8%	8.7%	7.58%
Last 5 Yrs.	10.7%	8.2%	7.65%

B. Recent Salary Increase and Turnover Experience

_	Salary Increase		
Year Ended	Actual	Assumed	Ratio of Actual Turnover to Expected
09/30/2016	5.9%	5.5%	2.27
09/30/2015	3.2%	5.5%	1.12
09/30/2014	5.2%	6.0%	2.17
09/30/2013	(6.9%)	6.0%	0.30
09/30/2012	26.6%	6.0%	1.51
Last 3 Yrs.	4.8%	5.7%	1.85
Last 5 Yrs.	6.3%	5.8%	1.47



Table XVII

CITY OF LAUDERHILL POLICE OFFICERS' RETIREMENT SYSTEM

State Required Exhibit

		_	10/01/2015	_	10/01/2016
A.	Participant Data				
	1. Active participants		91		85
	2. Retired participants and				
	beneficiaries receiving benefits		30		31
	3. DROP participants		10		15
	Disabled participants receiving benefits		_		
	5. Terminated vested participants		3		3
	6. Total participants		10		12
	7. Annual payroll of active		144		146
	participants	\$	8,479,879	\$	8,091,698
	8. Annual benefits payable to those	*	0,1/2,0/2	Q.	0,001,000
	currently receiving benefits	\$	1,733,657	\$	1,808,780
	9. Annual benefits payable to		, ,		
	terminated vested participants	\$	196,856	\$	196,856
	10. Annual benefits payable to DROP				-
	participants	\$	905,933	\$	1,310,634
В.	Value of Assets				
	Actuarial value	\$	52,511,277	S	57,237,084
	2. Market value	\$	50,366,584	\$	56,042,901
C.	Liabilities				
	Actuarial present value of future				
	expected benefit payments for				
	active members				
	a. Age retirement benefits	\$	44,856,004	\$	42,876,789
	b. Vesting benefits		2,495,139		2,452,197
	c. Death benefits		182,493		263,070
	d. Disability benefits e. Total		324,641	_	<u> 293,604</u>
	e. Totai	\$	47,858,277	\$	45,885,660
	2. Actuarial present value of future				
	expected benefit payments				
	terminated vested members	\$	807,374	\$	1,038,604
	3. Actuarial present value of future				
	expected benefit payments for those	•			
	receiving benefits				
	a. Service retired	\$	20,147,132	\$	21,298,028
	b. DROP participants		11,056,074		16,128,006
	c. Disability retired		626,183		515,077
	d. Beneficiaries	_	207,691	_	207,221
	e. Total	\$	32,037,080	\$	38,148,332



Table XVII (continued two)

			_	10/01/2015	 10/01/2016
	4.	Total actuarial present value of future expected benefit payments	\$	80,702,731	\$ 85,072,596
	5.	Actuarial accrued liabilities	\$	67,003,623	\$ 71,572,370
	6.	Unfunded actuarial accrued liabilities (see footnote 1/ for separation)	\$	14,492,346	\$ 14,245,286
D.	Sta	atement of Accumulated Plan Benefits			
	ì.	Actuarial present value of accumulated vested plan benefits a. Participants currently			
		receiving benefits b. DROP participants	\$	20,981,006	\$ 22,020,326
		c. Participants due deferred benefits		11,056,074 807,374	16,128,006 1,038,604
		d. Other participants		25,522,395	23,391,608
	2.	e. Total Actuarial present value of	\$	58,366,849	\$ 62,578,544
	3.	accumulated non-vested plan benefits Total actuarial present value of		813,081	1,210,483
		accumulated plan benefits	\$	59,179,930	\$ 63,789,027
E.	Sta	ntement of Change in Accumulated Plan Benefits			
	1.	Actuarial present value of accumulated plan			
		benefits as of October 1, 2015			\$ 59,179,930
	2.	Increase (decrease) during year attributable to: a. Plan amendment			\$ 0
		b. Actuarial assumptions and methods changes			654,249
		c. Benefits paid and contribution refundsd. Other, including benefits			(2,932,146)
		accumulated and increase for interest due to decrease			
		in the discount period			6 006 004
		e. Net increase (decrease)			\$ 6,886,994 4,609,097
	3.	Actuarial present value of accumulated plan			
		benefits as of October 1, 2016			\$ 63,789,027



Table XVII (continued three)

F.	Pension Cost	_	10/01/2015	**	10/01/2016
	 Total normal cost including expenses Expected member contribution Item 2. as percentage of payroll Net employer normal cost Payment required to amortize 	\$	2,181,190 847,988 10.0% 1,333,202	\$ \$	2,124,895 809,170 10.0% 1,315,725
	unfunded liability 6. Total employer required contribution	_	1,287,765	_	1,301,725
	(including interest) 7. Item 6. as a percentage of payroll 8. Estimated State contributions 9. Item 8. as a percentage of payroll 10. Net amount payable by City 11. Item 10. as a percentage of payroll	\$ \$ \$	2,723,906 32.1% 365,170 4.3% 2,358,736 27.8%	\$ \$ \$	2,720,045 33.6% 381,449 4.7% 2,338,596 28,9%
G.	Past Contributions		_, ,		_,,,,,,
	 Total contribution required Actual contributions made: Employees City State Total 	\$	3,571,894 922,206 2,342,742 381,449 3,646,397	\$	3,529,215 N/A N/A N/A N/A
H.	Net Actuarial Gain / (Loss)	\$	34,968	\$	734,341
I.	Disclosure of Following Items: 1. Actuarial present value of future salaries - attained age 2. Actuarial present value of future	\$	58,987,186	\$	57,511,487
	employee contributions - attained age 3. Actuarial present value of future	\$	5,898,719	\$	5,751,149
	contributions from other sources 4. Amount of active members'		N/A		N/A
	accumulated contributions 5. Actuarial present value of future	\$	6,631,029	\$	6,346,868
	salaries and future benefits at entry age 6. Actuarial present value of future		Not prov	ided	by software
	employee contributions at entry age		Not prov	ided	by software



Table XVII (continued four)

1/ Unfunded Actuarial Accrued Liabilities

Description and Amount of Original Liability	Remaining Amortization Period	Unamortized Amount as of Valuation Date	Amortization Payment
10/01/1999 New Method	13 years	\$ (240,244)	\$ (27,503)
10/01/2000 Actuarial Loss	14 years	283,018	31,013
10/01/2000 Plan Amendment	14 years	222,055	24,333
10/01/2001 Actuarial (Gain)	15 years	(123,434)	(13,008)
10/01/2002 Actuarial (Gain)	16 years	(291,270)	(29,639)
10/01/2002 Plan Amendment	16 years	829,971	84,457
10/01/2002 Plan Amendment	16 years	139,487	14,194
10/01/2003 Actuarial Loss	17 years	78,848	7,775
10/01/2004 Actuariat Loss	18 years	150,452	14,419
10/01/2004 Plan Amendment	18 years	878,601	84,206
10/01/2005 Actuarial Loss	19 years	1,124,298	105,016
10/01/2006 Actuarial Loss	20 years	1,118,271	102,041
10/01/2006 Assumption Change	20 years	780,056	71,179
10/01/2007 Actuarial (Gain)	21 years	(331,314)	(29,596)
10/01/2008 Actuarial Loss	22 years	32,063	2,809
10/01/2009 Actuarial Loss	23 years	2,038,549	175,477
10/01/2010 Actuarial Loss	24 years	824,062	69,796
10/01/2011 Actuarial Loss	25 years	2,205,463	184,050
10/01/2011 Plan Amendment	15 years	.1,204,952	126,982
10/01/2011 Assumptions Change	20 years	916,792	83,656
10/01/2012 Actuarial Loss	26 years	1,232,065	101,430
10/01/2013 Actuarial Loss	27 years	621,529	50,533
10/01/2014 Actuarial Gain	28 years	(361,094)	(29,024)
10/01/2014 Plan Amendment	18 years	(660,353)	(63,289)
10/01/2014 Assumptions Change	18 years	1,559,850	149,497
10/01/2015 Actuarial Gain	29 years	(34,637)	(2,755)
10/01/2016 Actuarial Gain	30 years	(734,341)	(57,840)
10/01/2016 Assumptions Change	20 years	781,591	71,319
TOTAL		\$ 14.245.286	\$ 1,301,528



Table XVII (continued five)

This actuarial valuation and/or cost determination was prepared and completed by me or under my direct supervision, and I acknowledge responsibility for the results. To the best of my knowledge, the results are complete and accurate, and in my opinion, the techniques and assumptions used are reasonable and meet the requirements and intent of Part VII, Chapter 112, Florida Statutes. There is no benefit or expense to be provided by the plan and/or paid from the plan's assets for which liabilities or current costs have not been established or otherwise taken into account in the valuation. All known events or trends which may require a material increase in plan costs or required contribution rates have been taken into account in the valuation.

Donald a. D. Janly	Panrong Lrao
Donald A. DuLaney, Jr. A.S.A., E.A./ Senior Consulting Actuary	Panrong Xiao, E.A., M.A.A.A. Enrolled Actuary
4/28/2017	4/28/2017
Date	Date
14-04191	14-07551
Enrollment Number	Enrollment Number

